	Application No.	Applicant(s)
Notice of Allowability	10/049,964	YASUTAKE ET AL.
	Examiner	Art Unit
	Francisco C Prats	1651
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to filing 7-18-2002.		
2. X The allowed claim(s) is/are <u>1-17</u> .		
3. The drawings filed on 18 July 2002 are accepted by the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). <ul> <li>a)</li></ul></li></ul>		
Attachment(s)  1. ☐ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. Interview Paper No 708), 7. Examiner	Informal Patent Application (PTO-152) Summary (PTO-413),  J./Mail Date  S Amendment/Comment  S Statement of Reasons for Allowance  Francisco C Prats Primary Examiner Art Unit: 1651

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## REASONS FOR ALLOWANCE

The preliminary amendment filed July 18, 2002, has been received and entered.

The following is an examiner's statement of reasons for allowance:

No prior art discloses or suggests the compound recited in claim 7.

With respect to the remaining claims, all directed to methods, the closest prior art is either Bardales (J. Biol. Chem 264(33):19893-19897 (1989)) or JP 5-64594. In general, as pointed out in the Reasoned statement in the International Preliminary Examination Report, no prior art suggests that the disaccharide lactose would be a donor saccharide substrate in a transglycosylation reaction. Bardales does describe addition of glycerol to the disaccharide  $Gal\beta-1,3-GalNAc$ . However, there is no suggestion that the enzyme of Bardales would function similarly with respect to the  $Gal\beta-1$ , 4-Glc or  $Gal\beta-1$ , 4-GlcNAc structures of lactose and N-acetyllactosamine respectively, required in the claims under examination, particularly in view of the known substrate specificity of saccharide-hydrolyzing enzymes, and the different sugars and bond configurations required in the claims vis-à-vis Bardales.

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Similarly, with respect to JP '594, the hydrolytic enzyme employed therein cleaves a parent sugar having a polymannosyl moiety attached to a GlcNAc dimer, a structure very different from the  $Gal\beta$ -1,4-Glc or  $Gal\beta$ -1,4-GlcNAc structures of lactose and N-acetyllactosamine, respectively, recited in the claims of the instant application. Moreover, there is no disclosure regarding the configuration or carbon atoms involved in the bond linking the reducing terminus GlcNAc to the non-reducing "saccharide" moiety "X" in the generic formula. Thus, at best, the closest prior art only suggests that the claimed process is "obvious to try," which is not a standard properly applied under 35 U.S.C. § 103(a). Allowance is clearly required.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Francisco C Prats whose telephone number is 571-272-0921. The examiner can normally be reached on Monday through Friday, with alternate Fridays off.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (to)1-free).

Francisco C Prats Primary Examiner Art Unit 1651

FCP